

USAF M&S MANAGER’S COURSE BETA TEST

COURSE SYLLABUS

- 1. COURSE INFORMATION: USAF M&S MANAGER’S COURSE BETA TEST**
31 July – 25 August, 2006
0800 – 1630 M–F
Bishop Conference Room
Air Force Agency for Modeling and Simulation
3051 Technology Parkway
Orlando FL 32826-3256
- 2. COURSE OBJECTIVE:** Prepare Air Force officers and civilians for M&S management positions in all functional areas.
- 3. COURSE DESCRIPTION:** The USAF M&S Manager’s Course is designed as a qualification course for a career in the M&S field. Course curriculum is covered over a four-week period and covers the following topics:
 - Basic M&S Concepts
 - Creating Models and Simulations
 - M&S Applications
 - M&S Integration
 - M&S Evaluation.
- 4. COURSE MATERIALS:** Students will be provided with handouts of instructional materials in the classroom.
- 5. COURSE CURRICULUM:**

Module 1: Basic M&S Concepts

Lesson	Topic
1-1	History of Modeling and Simulation
1-2	Modeling & Simulation Systems Theory
1-3	Basics of Modeling and Simulation
1-4	Representation in Modeling and Simulation
1-5	Interoperability
1-6	Interoperability, Part 2
1-7	USAF M&S Strategy & Simulation Organizations
1-8	Foundations Thrust
1-9	Accelerated Acquisition Thrust
1-10	Warfighter Readiness Thrust
1-11	New and Emerging Warfighter Capabilities

Module 2: Creating Models and Simulations

Lesson	Topic
2-1	Develop Simulation Requirements
2-2	Technical Process of M&S Development
2-3	Verification, Validation & Accreditation of M&S
2-4	Money, Contracts & Intellectual Property
2-5	Database Formulation

Module 3: M&S Applications

Lesson	Topic
3-1	Research Tools and Techniques
3-2	Simulations

Module 4: M&S Integration

Lesson	Topic
4-1	Identify Objectives
4-2	Pre-Integration Phase
4-3	Documentation
4-4	Integration Phase
4-5	Analysis and Feedback Phase
4-6	Scenario Development Phase
4-7	Communication
4-8	Simulation Cell Structure

Module 5: M&S Evaluation

Lesson	Topic
5-1	Design a Simulation Evaluation
5-2	Evaluate a Simulation
5-3	Assess Evaluation Data
5-4	Future Technology Implications for M&S